

DIRECTORATE GENERAL BORDER SECURITY FORCE  
COMMUNICATION AND IT DIRECTORATE  
(EQUIPMENT SECTION)

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Sub: **EXPRESSION OF INTEREST**

BSF intends to procure SMART (Spurt Message Alphanumeric Radio terminal) Plus equipment with its essential accessories for standard operation and additional accessories for secure mode of data communication through radio link within the organization. The details of equipment are as under

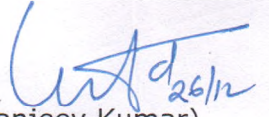
Srl No	Item	QTY/ Set
1`	SMART Plus with separate encryption unit along with accessories for standard operation without Dot Matrix printer along with	
	(i) Radio interface cable with free ends	
	(ii) P C Adapter accessories 9P to 25 P FD type for PC interface	
	(iii) USB to serial convertor for laptop connectivity	
2	Additional accessories	
	(i) Secure Key Gun Master(SKGM)	
	(ii) Secure Key Gun slave	
	(iii) Cable for fill Gun	

2. The technical specification of equipment are as under:-

<b>General</b>	Mode of operation	Store and forward
	Type of operation	Burst synchronous
	Type of error control	Forward error control (FEC)
	Operating modes	Clear/secure
	Type of addressing	selective, broadcast
	Keyboard	Alpha numeric "QWERTY" layout
	Display	40X4 character display
<b>Crypto algorithm</b>		Scientific analysis group (SAG) approved Grade 3
<b>Radio interface</b>	Data rate	50,100,200 bps
	Output level	>30 mv peak to peak across 150 ohm
	Input level	50 mv to 220 mv peak to peak across 300 ohm

<b>Line interface</b>	Data rate	50,100,200 bps
	Output level	>-3dbm across 600 ohm
	Input level	-30dbm to +3dbm across 600 ohm
<b>Base band interface</b>	Data rate	100,200,300,600,1200,2400,4800 bps
	Output level	±5V to ± 14V
	Input level	±5V to ± 20V
<b>Power supply source</b>	From AC mains	180V to 260 V AC (through MAU)
	From battery	12/24V DC
<b>Environmental</b>	Operating temperature	-30°C to +55°C
	Storage temperature	-30°C to +70°C
	Humidity	Up to 95% (RH) at +40°C
<b>Storage Capacity</b>	Tx memory	100 numbers of 1000 characters
	Rx memory	100 numbers of 1000 characters
	Draft memory	100 numbers of 1000 characters
<b>EMI/EMC specifications</b>		As per MIL STD 461 D specifications
<b>Compatibility</b>		Equipment must be compatible with existing SMART plus equipment in secure mode

3. Firms are requested to quote the price through E-mail mentioned above alongwith technical details, make, model and literature of the equipment offered by 3<sup>rd</sup> Jan,2018 for our further course of action.

  
 (Sanjeev Kumar)  
 Comdt (C-Eqpt)  
 \_\_\_\_\_ Dec 2017

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\_\_\_\_\_ Dec,2017

To ;

IT wing FHQ; for publish in CPP portal/ BSF Website for wide publicity

